



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: BAILEY et al.

Attorney Docket No.:
LAM1P130/P0566

Application No.: 09/536,000

Examiner:
ALEJANDRO MULERO, Luz L.

Filed: March 27, 2000

Group: 1763

Title: METHOD AND APPARATUS FOR
VARYING A MAGNETIC FIELD TO CONTROL
A VOLUME OF A PLASMA

CERTIFICATE OF EXPRESS MAILING

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PRELIMINARY AMENDMENT C

Sir:

In response to the Office Action dated June 27, 2002, please amend the above-identified patent application as follows:

~~IN THE CLAIMS~~

Please cancel claims 12-18.

Please amend claims 1, 3, 8-11, 28 and 30 and add claims 37-41, as follows:

1. (Twice Amended) A plasma processing apparatus for processing a substrate, comprising:

a process chamber, defined at least in part by a top end and a bottom end and a wall extending between the top end and the bottom end, within which a plasma is ignited and sustained for said processing;

a magnetic array having a plurality of magnetic elements that are disposed around the periphery of said process chamber around the outside of said wall, said plurality of magnetic elements being configured to produce a magnetic field with an azimuthally symmetric radial